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10/020,903	12/19/2001	Atsushi Mitomi	520.40984X00	8788

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EXAMINER

LEROUX, ETIENNE PIERRE

ART UNIT	PAPER NUMBER
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2171

DATE MAILED: 05/07/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.

10/020,903

Applicant(s)

MITOMI ET AL.

Examiner

Etienne P LeRoux

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____.  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____.   | 6) <input type="checkbox"/> Other: ____.                                    |

### ***Specification***

The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat No 6,134,559 issued to Brumme et al (hereafter Brumme).

#### **Claim 1:**

Brumme discloses an object integrated management system that manages real data managed by data management systems in an integrated manner, comprising:

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- a repository [Fig 1, 140, col 7, lines 54-60] that stores virtual objects respectively created correspondingly to real data [Fig 1, 120]
- virtual object metamodels defining the virtual objects [uniform object model 100, Fig 1],
- adapter objects [Fig 1, 110] having configuration information of said data management systems and a function of access processing for real data stored in said data management systems, and adapter object metamodels defining said adapter objects [Figs 1 and 3, col 9, lines 25-45];
- a metamodel [Fig 2, 180, col 8, lines 29-43] management part that manages said virtual object metamodels and said adapter object metamodels within said repository; and
- an object management part that manages said virtual objects and said adapter objects, and uses said adapter objects to access real data [Fig 1, 100, col 6, lines 32-48]

Claim 2:

Brumme discloses said virtual object metamodels and adapter object metamodels are respectively a class; said virtual objects and said adapter objects are respectively instances of a corresponding class; said virtual object metamodels and said adapter models are associated with each other; and said virtual objects and said adapter objects are associated with each other [col 1, lines 15-30]

Claim 3:

Brumme discloses wherein said adapter object metamodel is created for each of said data management systems [col 4, lines 16-28].

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Claim 4:

Brumme discloses wherein, upon receipt of a request to refer to a virtual object, said object management part obtains the virtual object from said repository, obtains an adapter object associated with the virtual object, and uses it to refer to the value of real data [col 4, line 54 – col 5, line 2]

Claims 5 and 6:

Brumme discloses an object integrated management system that manages the respective real data of plural data management systems managing real data in an integrated manner, comprising: a repository [Fig 1, 140, col 7, lines 54-60] that stores virtual objects respectively created correspondingly to real data for a certain data management system, a virtual object metamodel [uniform object model 100, Fig 1] defining the virtual objects, an adapter object [Fig 1, 110] having configuration information of said data management system and a function of access processing for real data stored in said data management system, and an adapter object metamodel defining said adapter object; a metamodel management part [Fig 2, 180, col 8, lines 29-43] that manages said virtual object metamodel and said adapter object metamodel within said repository; and an object management part [Fig 1, 100, col 6, lines 32-48] that manages said virtual objects and said adapter object, and uses said adapter object to access real data, wherein: upon receipt of a request to add a new data management system for integrated management, said metamodel management part stores a virtual object metamodel and an adapter object metamodel corresponding to the new data management system in said repository; relations are defined among virtual object metamodels and among adapter metamodels; and virtual objects and

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adapter objects are formed as the respective instances of said virtual object metamodel and adapter object metamodel newly stored in the repository [col 4, line 54 – col 5, line 2].

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat No 5,361,349 issued to Sugita et al (hereafter Sugita).

Claim 1:

Sugita discloses an object integrated management system that manages real data managed by data management systems in an integrated manner, comprising:

- a repository that stores virtual objects respectively created correspondingly to real data [Fig 1, col 3, lines 32-63],
- virtual object metamodels defining the virtual objects [virtual object production process, Figs 12A-12C],
- adapter objects having configuration information of said data management systems and a function of access processing for real data stored in said data management systems, and adapter object metamodels defining said adapter objects [relation management table 1100, Fig 8, col 6, line 48-col 7, line 20]
- a metamodel management part that manages said virtual object metamodels and said adapter object metamodels within said repository [share management table 1000, Fig 8, col 6, line 48-col 7, line 20]; and

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- an object management part that manages said virtual objects and said adapter objects, and uses said adapter objects to access real data [virtual object management program 314, Fig 2, col 4, lines 3-15]

Claim 2:

Sugita discloses said virtual object metamodels and adapter object metamodels are respectively a class; said virtual objects and said adapter objects are respectively instances of a corresponding class; said virtual object metamodels and said adapter models are associated with each other; and said virtual objects and said adapter objects are associated with each other [Fig 5A, 430].

Claim 3:

Sugita discloses wherein said adapter object metamodel is created for each of said data management systems [col 3, lines 48-51]

Claim 4:

Sugita discloses wherein, upon receipt of a request to refer to a virtual object, said object management part obtains the virtual object from said repository, obtains an adapter object associated with the virtual object, and uses it to refer to the value of real data [virtual object management table 315, Fig 2].

Claims 5 and 6:

Sugita discloses an object integrated management system that manages the respective real data of plural data management systems managing real data in an integrated manner, comprising:

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a repository [Fig 1, col 3, lines 32-63] that stores virtual objects respectively created correspondingly to real data for a certain data management system, a virtual object metamodel [Figs 12A-12C] defining the virtual objects, an adapter object [Fig 8, col 6, line 40-col 7, line 20] having configuration information of said data management system and a function of access processing for real data stored in said data management system, and an adapter object metamodel defining said adapter object; a metamodel management part [Fig 8, col 6, line 48-col 7 line 20] that manages said virtual object metamodel and said adapter object metamodel within said repository; and an object management part [Fig 2, col 4, lines 3-15] that manages said virtual objects and said adapter object, and uses said adapter object to access real data, wherein: upon receipt of a request to add a new data management system for integrated management, said metamodel management part stores a virtual object metamodel and an adapter object metamodel corresponding to the new data management system in said repository; relations are defined among virtual object metamodels and among adapter metamodels; and virtual objects and adapter objects are formed as the respective instances of said virtual object metamodel and adapter object metamodel newly stored in the repository [Fig 1, any one of file 2, file 3, file 5 and file 8].

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: US Pat No 6,499,036 issued to Gurevich teaches movement of data between multiple, disparate data sources and the object-oriented computer programs that process the data.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Etienne LeRoux whose telephone number is (703) 305-0620.

The examiner can normally be reached on Monday – Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic, can be reached on (703) 308-1436.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Patent related correspondence can be forwarded via the following FAX number (703) 872-9306

Etienne LeRoux

April 30, 2004

A handwritten signature in black ink, appearing to read 'Etienne LeRoux', is written over the typed name and date.